

C.A.T

- a) Explain **THREE** checks that a web server may implement to reduce security risks. **(6 Marks)**
- b) Sending a password over a network connection is vulnerable to replay attacks by eavesdroppers. Briefly describe **THREE** forms of unilateral (or one pass) authentication suitable for human keyboard entry that can reduce that risk with the help of a hardware token and name an advantage for each. **(6 Marks)**
- c) An application process receives information via a UDP packet over a wired Ethernet LAN connection. If the packet carries a source port number below 1024, under which conditions can the information be trusted. **(4 Marks)**
- d) Describe a *UDP-based amplification attack*, and why are similar attacks far less practical via TCP. **(4 Marks)**
- e) Compare and contrast between *LINUX* operating systems and *WINDOWS* operating systems security features. **(4 Marks)**
- f) Explain **THREE** ways in which you can prevent hacking of your social media accounts. **(6 Marks)**